

"IMPROVED CALIPER FOR A DISC-BRAKE"**ABSTRACT**

A caliper (1) for a disc-brake comprises two side walls (2) at a distance from each other which delimit a space (3) to accommodate a portion of a brake disc in which one of said two side walls (2) comprises means (4) for attaching the caliper (1) to a vehicle so that it is integral in rotation and in translation. The side walls (2) are connected to each other by means of a connecting structure (5) which straddles the disc space (3). Each of the side walls (2) delimits at least one seating (6) capable of accommodating a pad (7) and the caliper (1) comprises thrust means (8) to clamp the pads (7) against the brake disc, in which the thrust means (8) are secured to the side walls (2) in such a way that the latter absorb the entire clamping force and the seatings (6) are capable of securing the pads (7) in such a way that the side walls (2) also absorb the entire braking moment applicable by the pads (7) to the brake disc by friction. The connecting structure (5) comprises one or more shells (10, 11), arc-shaped or arranged along an arc, connected so as to be integral with both the side walls (2) along one of their outer circumferential edges (12) and the slenderness of these one more shells (10, 11) expressed as the ratio of thickness to

circumferential extension relative to an axis of rotation of the brake disc is less than $17/100$.

(Figure 1)